

METEOROLOGICAL DATA REPORT

19702A MLRS Hissile No. BR-13 Round No. B-81 07 February 1980

by

White Sands Meteorological Team

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ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

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30. ABSTRACT (Continu	on reverse alde If necessary and Identify by thick number	tr)
Meteorological	d at a gathered for the launching of Round Number B-81 are presented in	f the 1 <b>9702A MLRS, Missil</b> e

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SECURITY CLASSIFICATION OF THIS PAGE (Main Date Entered)

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Dist.	Avail and special	*

# INTRODUCTION

1	9702A MLRS		lissile Nu <b>mbe</b> r	RR-13	, Round Number	8-81
	ched from		_		e Range (WSMR), Ne	
at <u>14</u>	24 HST (	on <u>07</u>	February 198	O The sche	duled launch time	was
1400:04	MST	•				
			DISC	USSION		
Meteorol	ogical data	a were re	corded and re	duced by the Wi	nite S <b>ands Me</b> teorol	ogical
Team. At	mospheric :	Sciences	Laboratory (A	SL), White Sand	ls <b>Missile Range,</b> M	lew Mexico
The data	were obta	ined by t	he following	methods:		
1.	Observation	ons			•	
	a. Surfac					
			surface obser	vations to inc	lude pressure, temp	eratur <del>e</del>
(°C), re					), Wind direction	
					Site at T-O minus	
					cisting pole-mounte	
tower-mou			-		peed and direction	
				ch control room		
	b. Upper					
			wind data we	re obtained fro	om RAPTS T-9 pibal	observa-
tion at:						
			SITE AN	D ALTITUDE		
			LC-33 Nick	2 km 2 km		
	(2)	Air struc	ture data (ra	winsonde) were	collected at the f	following
Met Sites					000 feet	
500-feet	increments					
			c 1 To	AND TIME		
			2115	AND TIME		

1400 HST

NORTH

·	7 Y186,500	<del> </del>	<del></del>			<u> </u>					<del></del>		 	 
1 1	1100,300				,									
			POL	.E 3	3 0									
			POL	. <b>E</b> 2	2 0									
8	Y186,000		POL	.E _ 1	40	A	L-51	9						
MET TOWER					79									
	Y185,500													
	1103,300													
								RA	PTS	r-9				
									O					
X475,630		X485,500					7460,000	B1.01	CHHO:	JSE	1	7486,300		X487,000
X47.5	Y185,000	X485				,	7400		<u> </u>		200	748C		X487

- MET TOWER 4 Bendix Model T-20 Anemometers at 17 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
- 2. POLE ANEMOMETER Bendix Model T-120 with L/A recorders.
  - (a) Pole #1 38.7 ft.
  - (b) Pole #2 53.0 ft.
  - (c) Pole #3 83.6 ft.
- 3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

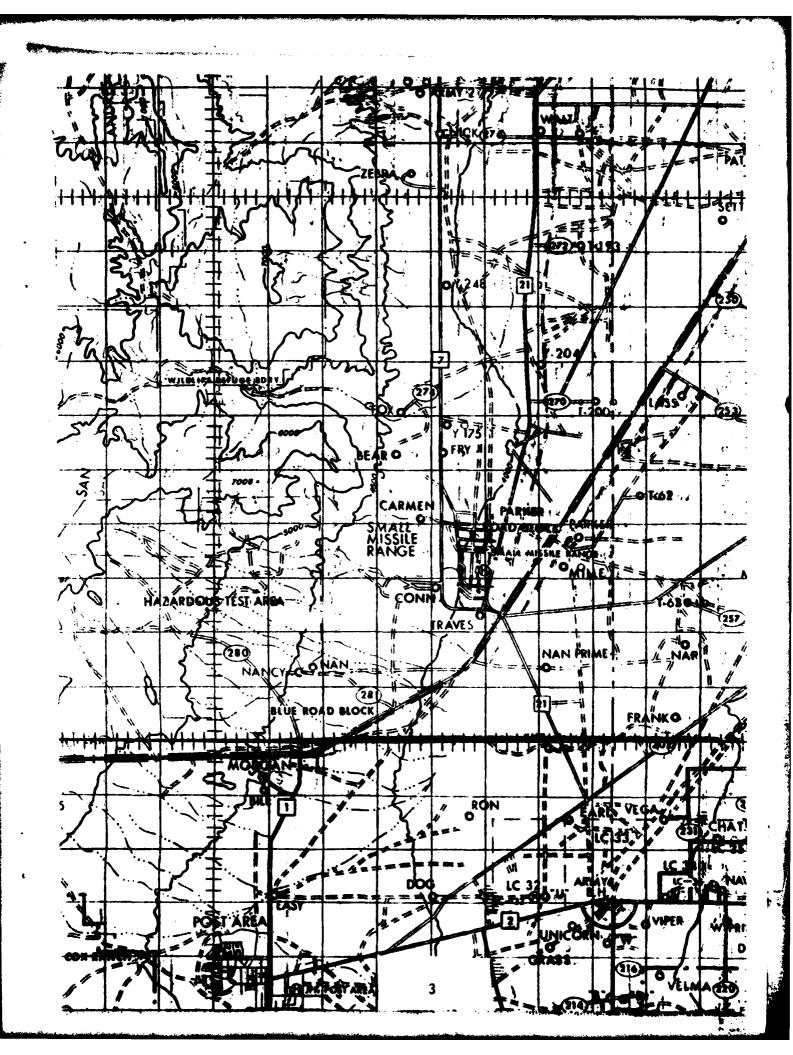


TABLE 1. Surface Observations taken at 1424 MST, 07 February 1980 at LC-33, 19702A MLRS, Missile Number BR-13, Round Number B-81.

ELEVATION	3983	FT/MSL
PRESSURE	868.0	MBS
TEMPERATURE	17.5	°C
RELATIVE HUMIDITY	21	%
DEW POINT	-5.0	o <sub>C</sub>
DENSITY	1037	GM/M <sup>3</sup>
WIND SPEED	17	KTS
WIND DIRECTION	240	DEGREES
CLOUD COVER	3	Cu

POLE #1 X485,87 Y185,95 H4018.7 38.7 ft	4.29 8.90 4		POLE #2 X485,874 Y186,012 H4033.57 53.0 ft	1.93 2.00 7		POLE # X485,87 Y186,116 H4063.9 83.6 ft	7.29 6.06 2	
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DI R DE G	SPEED KTS
-30	285	20	- 30	271	13	-30	265	22
-20	289	25	-20	273	17	-20	243	26
-10	272	28	-10	257	21	-19	249	25
0:0	275	31	0.0	266	19	0.0	248	28
+10	276	25	+10	258	24	+10	249	26

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, X484,982.64		73, H3983.00 (base)	LEVEL #2, 62 X484.982.64,		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	251	16	- 30	255	24
-20	244	21	-20	252	22
-10	248	17	-10	253	20
0.0	236	17	0.0	251	22
+10	252	16	+10	256	24

LEVEL #3, 102 FEET x484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)				
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS		
-30	260	23	- 30	254	25		
-20	252	23	-20	249	27		
-10	260	25	-10	250	24		
0.0	256	25	0.0	252	24		
+10	260	22	+10	261	23		

TABLE 4 RELEASED FROM LC-33 DATE 07 February 1980 TIME 1424 MST COORDINATES (WSTM) X 486,037.24 Y= 182,350.36 H= 3977.30 TRACKER NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH HEIGHTS ARE METERS AGLYY OR FEET AGL HEIGHT DIRECTION SPEED HEIGHT DIRECTION | SPEED HEIGHT DIRECTION ISPEED DEGREES KTS DEGREES **AGL** AGL KTS AGL DEGREES KTS SFC MISG MISG MISG MISG 

TABLE 5 DATE 07 February 1980 TIME 1424 MST RELEASED FROM Nick COORDINATES (WSTM) x 470,734.56 Y 255,775.64 H 4126.57 TRACKER HOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH HEIGHTS ARE METERS AGL XX OR FEET AUL ... DIRECTION | SPEED HEIGHT | DIRECTION | SPEED HEIGHT FIELGHT DIRECTION SPEED DEGREES KTS AGL DEGREES DEGREES AGL KTS AGL KTS SFC 245 13 90 265 11 11 290 150 295 12 210 MISG 270 MISG 330 MISG MISG 390 MISG MISG 500 MISG MISG 650 MISG ! MISG 800 MISG MISG 950 265 30 250 1150 28 250 27 1350 1550 260 30 1750 260 33 2000 260 34

# SIGNIFICANT LEVEL DATA 035022059 WHITE SANUS TABLE 6

PERCENT	20000000000000000000000000000000000000	•
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GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

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7.6 68	972.5	-5R.4		
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FEE	¥	
3989.00 FEET MSL	1400 HKS KAT	
ğ		30
ALTITUDE	c) S)	2
TATION	7 FEB.	SCENSTO
STATION ALTITU	7 FEB.	ASCENSION

UPPER AIR DATA

INATES IT DEG

32-40043 LAT 106-37033 LON	OATA INDEX
	MIND DATA
ρ vi	PEED OF
SASSOSSOSSOSSOSSOSSOSSOSSOSSOSSOSSOSSOSS	TEL HUM. DENSITY SPEED OF
s.	PEL . HUM.
JACO HAS AST	TEMPERATURE
11:00E 3909:00 TEET FSL 14:00 HKS KST 10. 39	PRESSURE

INDEX OF OF REFRACTION .	9.9 1.000253	0	-7 1.00025	1.00024	1-00054	-8 1.0052	0 1.00023	.2 1.0	.5 1.0	1.00022	•8 1•00022	6.4	.8 1.00021	.5	. <del>.</del>	21.7 1.000205	.5	.7	.2 2.	.8	.4 1.	.2 1.0	.3 1.0	3 1.	•6 1.00017	•	•8 1•00016	.8 1.0001c	.2 1.0001	.5 1.00015	1.00015	.7 1.00	.2 1.00014	3.9 1.00014	0.0 1.00014	6.3 1.0001	3.8 1.00013	5.0 1.0001	1.00013
#IND DATA DIRECTION SPEED DEGREES(IN) KNOTS	250.0	50.3	_	•	9	'n	2	o.	7	<b>.</b>	ທຸ		9.	v	15.7	8	7,	77.2	<b>.</b>	٠. د	46.0	47.5	48.5	2.64	1.65	250.6	51.7	_		<b>~</b>	_	S.	ນ	254.0	6	9.	260.0 7	٥	266.5
SPEED OF SOUND KHUTS	667.2	667.1			659.0	657.3	655.6	653.9	652.1	650.5	648.8	•	•	643.8	642.3	•	38.	637.5	36.	634.7	33.	631.5	6	g,	0	6,7,5	O.	625.1	•	_	•	618.7	•	-		12.	17.	10	9:
DENSITY S GV/CUHIC METER	1031.1	31.	020	014.	•	•	•	•	•	937.0	•	•	ċ	697.2	874.4	862.4	ځ	638.0	825.4	813.0	801-1	789.5	•	764.7	•		•	•	<b>5</b>	'n	683.2	•	å	<b>9.139</b>	•	6-11-5	ė	10.	600.1
PERCENT	23.0	23.1	29.9	31.9	32.9	33.9	35.0	36.0	37.1	46.1	43.0	46.0	0.04	50.7	50.1	51.0	51.9	51.4	50.7	50.1	50.6	51.3	52.0	51.3	50.5	46.1	48.6	•	33.2	•	•	20.0	•		•	•	•	•	24.0
EMPERATURE DEWPOINT ES CENTIGRADE	-2.2	٠	•	•	<b>3.5</b>	•	50.5	•		-7.3		-8-1	-R-Ó	O	-10.7	-11-3		-14.1	'n	•	-	-13.7	•	•	-21.3	-22.1	-23.0	-26.1	23	33.	•		C off	1-04-	-	•		1.24-	
TEMP AIR DEGREES	19.5	6	15.6	13.8	12.3	10.9	9.5	0.8	6.6	5.1	3.7	•	<b>.</b>	į	-1.1	-3.1	9.4-	-5.1	9.9-	0-8-	-9.5	-10.0	-11.9	-15.6	-13.2	-13.9	-14.6	-15.4	-17.2	-18.5	-19.8	-21.0	-22.3	-23.5	-24·B	-26.0	-27.0	-28.0	-20.1
PRESSUME HILLIBANS	868.2	867.9	852.5	437.1	822.0	407.4	192.5	1.871	164.0	2.04/					4.289			0 + + 0		<b>619.5</b>	<b>\$0.20</b>	<b>295.3</b>	283.4						217.1	507.3	497.1	4.984	410.3	467.1	457.0	1.811	1.854	429.5	#20°
GEOMETHIC ALTITUDE MSL FEET	3989.0	40.00.0	4500.0	5000-0	5500.0		0.0050	7000-0		8.000°C	8500-0	90000	9500.0	10000	10500.0	11000.0	11503.0	12000.0	12500-0	13000-0	13500.0	14000-0	14500.0	15000.0	15500.0	100001	16500.0	17000.0	17509.0	18000-0	18500.0	19000.0	19500.0	20000-0	20500.0	21000.0	21500.0	220000	22500.0

FEET MSL	HKS MST
3989.3	1400 H
STATION ALTITUDE	98 5: 40.
STATION	ASCENSION

STATION ALTITUDE 7 FEB. BU ASCENSION NO.	66	89.30 FEET A 1400 HKS MST	ET #SL MST	_	UPPER AIR CATA 0363020059 WHITE SANDS TABLE 7 (cont)	A LATA 2059 ANDS (cont)		\$E00ETIC 32.4 106.5	DETIC COORDINATE 32.40043 LAT UE 106.37033 LON DE
GEOME 1 HIC	PRESSUME	14.41	TEMPERATURE	REL . HUM.	DENSITY	SPEED OF	AD UNIN	DATA	X3CNI
ALITONE MSL FERT	HILLIBANS	DEGREES	CENTIGRADE	PERCENT	GW/CUMIC METER	SCUND KNO 1S	DEGREES (TW)	SPEED KNOTS	REFRACTION
23500.0	403.0	-31.1	0.44-	56.6	580.1		265.7	83.3	1.00013
2.000.0	394.0	-32.2	1000	25.5	570.3		265.4	87.1	1.00012
	327.1	(100) (100)	V	23.0	4.000	0.00 8.104	254.0	91.0	1.00012
25,000	369.5	30° €	1.6h-	22.0	542.3		204.6	91.5	1.00012
200000	361.5	-37.0	-53.8	22.0	553.3		264.3	91.6	1.00011
26500-0	553.1	-38.5	-51.9	22.0	524.5	597.1	263.7	91.7	1.00011
27.000.0	D. 040	139.0	0.00	22.0	515.9	555 555 555 555 555 555 555 555 555 55	262.0	91.7	1.0001
2000000	2000 2000 2000 2000 2000 2000 2000 200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.00 10.00 10.00 10.00	15.2##	N = 400 a	10 V	262.0	84.7	1.0001
23500.0	するのなり	42.5	6.09-	11.74	1.034 1.034		260.3	76.7	1.00010
29000-0	316.2	1-55-	64.5	8.2**	8.00t		258•1	68.6	
29500.0	209.1	-45.2	-69.3	4*7.4	472.4		254.2	63.2	1.00010
30000-0	202.2	-4D.3	-19.2	1.1**	454.2		220.0	58.7	
550	562 ·	<b>**/*</b>			455.6	USU.	*	3/02	
31300.0	288.0	C. 87			0.7.5		240.0	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	10001
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32500.0 32500.0	250	2000			670.0	7.75	255.7	4.00	1.0000
53000.0	263.1	1.94-			8-404		255.0	67.5	
33200.0	257.2	1.00-			345.6		256.1	76.8	
3.000.5	251.3	-47.5			3-17-8		255.3	80.3	
24500.0	745.6	-47.1			378.6	5.000	253•3	79.5	
35300.0	**************************************	0.03			358•1		251.5	82.0	
5.00000 C.000084	10・3へい	140.0			いっぱい	100 P	0.00 s.c.	93.7	1.00001
35500.0	224.4	-41.7			357-8		248.5	95.2	
30	•	-42.3			331.1		246.7	8.46	
37500.0	214.0	-43·5			325.4		245.1	93.8	1.00007
35000.0	209•B	4.00			216.1		244.0	91.1	
<u>ئ</u>	7002	す・ハコー			310.9		243.5	38.2	1.00006
29000-0	2000	9.64			M + 40E	590	9.54Z	84.7	
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	10161	T • # #			9-162		2.0.7 0.140	2002	
6.00004.8	183.2	30.5			279.4	5.4.6	253.7	78.4	1.000063
3	179.0	-45.8			274.3	547.4	256.4	78.4	
900	175.0	-46.8			269.	5,00.1	259.3	89.7	1.0000
2500.	171.0	-47.8			264.4	504	262.1		1.00005
45000.0	167.1	48.4			259.6		263.3	92.4	1.00005

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

Þ	-
STATION ALTITUDE 3989.00 FEET MSL	1400 HKS MST
STATION ALTITUDE	7 FEY. BO. ASCENSION NO.

UPPER AIR LATA 0.580020059 WHATE SANUS TABLE 7 (cont)

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON LEG

INDEX OF REFRACTION	•	•		•	•		•	1.000049	+00000+	•	<b>*0000</b>	200	•	1.000043	•	•	•	•	1.00039	1.000038	1.000037	1.000036	1.000025	1.000034	.0000	•00000	1.000032	.00003	.00003	.00003	•	.90002	-00002	•00005	• 00002	•	1.000025	0000	-00005	.0000.
TA SPEED KNOTS	87.5	87.6	83.7	79.7	75.5	71.2	71.4	72.5	75.6	79.1	79.8	80.0	77.2	72.2	67.0	61.6	56.7	55.0	53.3	54.2	55.6	50.3	43.2	35.9	26.3	18.4	13.9	9.8	6.2	7.2	10.9	20.8	•	•	8	-4	39.5	6	•	21.2
WIND DAT DIRECTION DEGREES(IN)	264.2	265.6	265-4	205.8	202.9	266.0	265.8	205.7	200.0	201.5	267.4	267.1	266•3	265.0	204.5	205.6	500.9	208.4	270.0	272.1	274.1	274.5	285.6	295.3	305.7	320.5	358.0	340.5	320.2	591.9	80	226.9	256.2	255.5	257.5	259.5	263.7	260.1	320.6	6.24
SPEED OF SOUND KNOTS	562.2	• ••• •••	0	579.5	578.6	577.6	•	570.5	574.5	573.4	572.4	572.0	571.9	5.075	5c9.3	558.1	556.4	5.8.3	5.7.6	5,00	500.1	5,50.0	500.0	567.3	567.9	508.5	5°9.1	505.7	5e9.8	5c9.2	568.6	5,7,9	567.3	566.7	506.0	505.4	Š	S	505.7	5,5.8
OPASITY S GWZCUBIC METER	30	249.7	244.6	າ	7)	230.3	225.7	221.2	21.6+8	212.4	205.2	203.6	198.8	D.	181.1	# - 181	142.7	178.3	174.5	1.0.1	10701	1.201	153.8	154.7	150.6	146.7	142.8	129.1	135.7	132.7	129.8	127.0	124.2	121.5	118.8	116.2	113.4	110.6	÷	105.2
REL.HUM. PERCENT																																								
EMPERATURE DEMPOINT LS CENTIGRADE																																								
TENT AIR DEGRELS	S • 64-	-50.5	-51.2	6-19-	-52.6	-53.4	-54.1	6.45-	-55.7	-56.5	-57.3	9.75	-57.7	-53.6	-29.6	₹.09-	0	-60.3	6.09-	-61.5	-62.0	-62.1	E	-61.1	-60.7	-80.2	-29.1	က်	<b>5</b> 7 (	-29.7	-60.2	$\circ$	-61.1	-61.6	•		-62.5	•	ċ	-52.2
PRESSURE MILLIBARS	163.3	159.0	155.9	152.3	7+8+T	145.3	101.9	136.5	135.0	132.1	129.0	120.0	125.0	120.0	117.2	114.4	111.6	80	ဥ	5	101.5	₹ <b>•</b> ₽0	<b>1.96</b>	7.06	91.9	89.0	67.5	82.4	83.5 0.53	81.3	79.4	77.5	73.0	73.6	72.0	70.3	9-89	60.7		63.
GEOME INIC ALTITUDE MSL FEET	43530.0	0.00mm	0.00S++	45000.0	•	40000	•	47000.0	•	46900.0	40500.0	U-00064	3	30000c	56525.	910ac•6	51500.0	52003.0	955:00.0	525.00.0	525.00	2+000+0	24500.0	C•000cc	55500-6	0-00056	50536.3	2.0.026	3.01.170	C.00.20	55,500.0	O-00050	29500.0	0.00ca	60200• <b>0</b>	<b>3</b> 50	61500.0	000	$\sim$	650n0-B

UPPER AIR LATA 0360205059 WHITE SANJS

ALITUDE WILLIAMS								
	AIR	AIR DEFECTAL	PERCENT	OK/CUBIC	SCUIS	DIRECTION	SPEED	OF.
	KS DEGREES	CENTIGRADE		WE TER	KNOTS		K5013	KEPKAC 1 10N
62•	-62.1			102.6	566.0	55.6	35.7	1.000023
<b>•</b> 09	/ -62.0			100-1		55.7	33.5	1.000022
59.				91.6		20.0	22.4	1.000022
57.				3.55		9000	11.1	1.000021
56.				05.0		281.8	11.0	1.000021
55.				9.06		259.5	27.6	1.000020
550				4.69		255·ë	36.3	1.000020
52.				999		256.3	40.7	1.000019
51.				54+1	5.7.0	556.4	43.1	1.000019
*64	y61.1			62•(		260.1	34.0	1.000016
43.	1-59.1			79.5		200.5	25.1	1.000018
47.				1.47		281.6	16.4	1.900017
146.				75.		321.3	10.3	1.000017
4. 4.				73.5		10.5	13.7	1.000016
* 111	2 -58.4			71.1		6.6	15.7	1.000016
43.2	-59.4			70.0	571.0	7.6	17.6	1.000016
71500.0 42.				<b>7•89</b>				1.000015
+ T +				66.				1.000015
. O 7	K -58.3			55.				1.000014
39	2 -58.5			63.6	571.0			1.000014

ITES	CE6	CEG
ROIN/	DO43 LAT UEG	LON
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ODETI	32.40	106.
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PK	SSURE	PRESSURE GEOPOTENTIAL		1EMPERATURE	REL . HU.4.	WIND DATA	ATA
			AIR	DEMPOINT	PEKCENT	DIRECTION	SPEED
MILL	MILLIBARS	FEET	DEGREES	CENTIGRADE		DEGREES (TN)	KNOTS
	850.0	4579.	15.0	-2.0	31.	262.2	14.3
	800.0		10.2	80·t-	34.	274.3	27.9
	750.0	7992	5.0	-7.3	40	281.4	42.8
	700.0	9823.		0.6-	51.	208.7	50.9
	650.0		-5.2	-13.5	50.00		41.0
	600 · n	13798.	-10.1	-18.3	51.		46.7
	550.0		-13.9	-22-1	50.		66.4
	500.0	•	-19.4	35.6	, O.		74.3
	450.0		-25.3	-45.0	20.		77.1
	400.0	_	-31.5	2.44-	27.		64.7
	350.0	_	-38.9	-52.4	22.		91.7
	300.0		-46.7		)		56.4
	250.0	34040	-47.5				80.2
	200.0		-43.6				84.5
	175.0	•	-46.8	•			80.6
	150.0		-52.3				77.2
	125.0	_	-57.5				60.1
	100.0	•	-62.3				55.2
	60.0		-60.0				4.6
	70.0		-62.6				51.9
	0·09		-62.0				29.2
	50.0	67702.	-61.2			259.4	35.4
	40.0	72501.	-58.3				

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

